



ADITYA KUMAR SINGH

aditya829925@gmail.com
me18btech11002@iith.ac.in
8299251173

Academic Details			
Year	Degree	Institute	CGPA/Marks(%)
2022	B.Tech Mechanical and Aerospace Engineering	Indian Institute of Technology Hyderabad	8.06
2018	XII (CBSE)	Radhika Bal Vidya Mandir, Jaunpur, UP	85%
2016	X (ICSE)	St. John's School Siddiqpur, Jaunpur, UP	9

Scholastic Achievements	
• Secured All India Rank 3192 in IIT JEE-Advanced out of 150,000 candidates	--2018
• Secured All India Rank 5897 in JEE-Mains out of 1.3 million candidates	--2018
• Secured Rank 339 in UPSEE out of 1.7 lakh candidates	--2018
• School Rank 1 for the Indian Mathematics Olympiad (I.M.O.)	--2015

Work Experience	
-----------------	--

SDE Intern (3 months) **Grid Edgewrks Pvt&Ltd** --Hyderabad

- Tasks and Achievements: (App building for Bill and tariff Savings calculations)
- Creating backend scripts and performing Automation of complex calculations using python
 - Tracking the product development and coordinate between Frontend and Backend teams
 - Making EPICs, Features, and User Stories for different screens and functions of the app on AzureDevOps.
 - Debugging and suggesting improvements for the Demo app and functionality

Lab Incharge(2019-Present) **Tinkerer's Lab** --IITH

- Tasks and Achievements: (Projects management and Events coordination)
- Tinkering night full night event for project building and innovation.
 - Managing TL inventory and Team recruitment along with feedback to faculty.
 - Talks, Outreach, and Orientations were also done.
 - Projects based on Arduino and raspberry pi like RC cars, wireless audio, circuits, etc.

Technical Skills	
------------------	--

More Proficient in **Python & C++**
Along with some experience in OS, DBMS, SQL, HTML, CSS, JS, Git, and TypeScript.
Familiar Web FrameWorks :

- Django - Python
- React - JavaScript

Using Python - selenium for web scraping and processing data.
Data Structures, OOP's, OpenCV, and few libraries like NumPy, pandas, requests, etc.
Physical Projects Using Arduino - Raspberry-pi and variety of sensors

Relevant Skills	
-----------------	--

Familiar with Git, Github, Putty, and Heroku
Worked on Ubuntu, Windows and Raspbian OS
Creating Google Chrome Extensions

Projects	
----------	--

- **IDP Project:** ROBO car, A Bluetooth controlled multi-sensory(Ultrasonic sensors, LDR's, IR sensors, and A Camera On top) car with dynamic script to control the movements and functions with a wireless connection(BT)
 - **GUI Sudoku Solver:** Solves Sudoku by scanning a picture of an unsolved sudoku board using backtracking algorithms and OpenCV Once by template matching then by using deep learning model.
 - **Crypto Portfolio Tracker:** Custom Chrome extension for tracking real-time P&L of crypto assets in Wazirx , along with a buying price calculator which calculates the new average buy price before buying.
 - **Stone Paper Scissor:** A real-time game player using OpenCV to detect the sign of hand and play accordingly
- Web Development:**
- **GlobalStocks:** A paper trading platform built in react for giving the real-time experience of buying and selling a stock-share with a fixed amount of money. Mimic the experience for learning purposes.
 - **CodeCollector:** A website for uploading and running customizable tools such as calculators, processors, or Javascripts for specific purposes.
 - **Extras:** Online ordering service, Todo list, Calculators, and few more dynamic pages.

Key Courses Undertaken	
------------------------	--

Programming Algo's: Introduction to Programming, Introduction to Data Structures -I
Basic Maths: Calculus-I & II, Elementary Linear Algebra, Differential Equations, Probability, Statistics